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CONFIRMATION NO. ATTORNEY DOCKET NO. APPLICATION NO. FIRST NAMED INVENTOR FILING DATE 1381 0905-0269P 10/026,807 12/27/2001 Reiko Kitawaki **EXAMINER** 2292 11/18/2004 BIRCH STEWART KOLASCH & BIRCH LONG, HEATHER R **PO BOX 747** ART UNIT PAPER NUMBER FALLS CHURCH, VA 22040-0747

2615 DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	10/026,807	KITAWAKI ET AL.
Office Action Summary	Examiner	Art Unit
	Heather R Long	2615
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R.1.136(a). In no event, however, may a r reply within the statutory minimum of thirl iod will apply and will expire SIX (6) MON atute, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2	7 December 2001.	
2a)☐ This action is FINAL . 2b)⊠ 1	his action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) ⊠ Claim(s) <u>1-4</u> is/are pending in the application 4a) Of the above claim(s) is/are with the state of the above claim(s) is/are allowed. 5) □ Claim(s) <u>1 and 4</u> is/are rejected. 7) □ Claim(s) <u>2 and 3</u> is/are objected to. 8) □ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		• .
9) The specification is objected to by the Exam 10) The drawing(s) filed on 27 December 2001 Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	is/are: a)⊠ accepted or b)⊑ the drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. The sents have been received in Appropriate to the sent sent sent sent sent sent sent sen	application No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyazawa (U.S. Patent 6,791,608).

Regarding claim 1, Miyazawa discloses a digital camera having an imaging device for sensing the image of a subject using a solid-state image sensor (103') and outputting image data representing the image of the subject, and an imaging lens (200) for forming the image of the subject on a photoreceptive surface of the solid-state image sensor (103'), comprising: a dust position detector operative in a dust detection mode (the dust detection mode is when the camera is turned on or when the lens system has been changed; col. 4, lines 32-47) for detecting the position of dust on an image (col. 4, lines 32-38),

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which is represented by image data output from the imaging device, on the basis of image data output from the imaging device (col. 4, lines 32-38); a storage device (17) for storing the dust position detected by the dust position detector; and a correction unit operative in an image sensing mode for correcting for the image of the dust, at the position stored in the storage device, in the image of the subject represented by the image data output from the imaging device (col. 6, lines 32-35).

Regarding claim 4, this is a method claim corresponding to the apparatus claim 1. Therefore, claim 4 is analyzed and rejected as previously discussed with respect to claim 1.

Allowable Subject Matter

- 4. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: prior art fails to teach or fairly suggest a digital camera, in combination with all the elements of the claim, wherein the storage device stores the dust position, which has been detected by the dust position detector, in association with magnification of the imaging lens; and in the image sensing mode, the correction unit corrects for the image of dust at the position conforming to the magnification of the imaging lens that has been mounted (claim 2).

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Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Read (U.S. Patent 6,035,072) discloses that defects such as dirt or dust are dynamically detected by processing a plurality of images via a computer.
 - b. Krainiouk et al. (U.S. Patent 6,233,364) discloses a system for identifying and tagging anomalies, such as images of dust and scratches, in a digital image so that they can be removed from the image.
 - c. Oda (U.S. Patent 6,340,989) discloses a digital camera that searches for black spots or dust by detecting if any of the electrical signals from the image is higher than the reference level. If it is determined that the electrical signal is higher than the reference level then the address of the black spot or dust on the image sensor is written into the memory.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather R Long whose telephone number is 703-305-0681. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen can be reached on (703) 308-9644. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Heather R Long Examiner Art Unit 2615

HRL November 9, 2004

TUAN HO
PRIMARY EXAMINER